

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

REVISED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
8 March 2001 (08.03.2001)

PCT

(10) International Publication Number  
**WO 01/16576 A1**

(51) International Patent Classification<sup>7</sup>: **G01N 21/00, 31/00, 33/00, 33/48, 33/53, 33/537, 33/543, 35/00, C12Q 1/00, C12M 1/34, 3/00**

(21) International Application Number: **PCT/US00/21064**

(22) International Filing Date: **3 August 2000 (03.08.2000)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
09/386,346 31 August 1999 (31.08.1999) US

(71) Applicant (for all designated States except US): **COMMON SENSE LTD. [IL/IL]; P.O. Box 3567, 38900 Ceasarea (IL).**

(71) Applicant (for TJ only): **FRIEDMAN, Mark, M. [US/IL]; Alharizi Street 1, 43406 Raanana (IL).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KRITZMAN, Amnon [IL/IL]; Zahahl Street 9, 30900 Zichron Yaakov (IL). SCHOENFLED, Alex [IL/IL]; Ibn Gvirol Street 50, 64364 Tel Aviv (IL). BONSTEIN, Lilach [IL/IL]; Hameyasdim Street 18, 30900 Zichron Yaakov (IL).**

(74) Common Representative: **FRIEDMAN, Mark, M.; c/o Castorina Anthony, 2001 Jefferson Davis Highway, Suite 207, Arlington, VA 22202 (US).**

(81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.**

(84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).**

Published:  
— *With international search report.*

(88) Date of publication of the revised international search report: **5 July 2001**

(15) Information about Correction:  
see PCT Gazette No. 27/2001 of 5 July 2001, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SYSTEM AND METHOD FOR ANALYZING SECRETED BODILY FLUIDS**

(57) **Abstract:** A device for automatic analysis of bodily secretions collected in an absorbent pad is disclosed. The device includes (a) a platform; (b) a first mechanism being supported by the platform for accepting, holding and advancing the absorbent pad along the platform; (c) a second mechanism being supported by the platform for identifying at least one location being suitable for the analysis; (d) a third mechanism being supported by the platform for exposing a portion of the absorbent pad; and (e) a fourth mechanism being supported by the platform for performing a biochemical analysis of the bodily secretions present in at least one of the locations.

**WO 01/16576 A1**

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/21064

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :Please See Extra Sheet.

US CL :422/63, 68.1; 435/4, 7.1, 7.92, 287.1, 287.2, 436/44

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 422/63, 68.1; 435/4, 7.1, 7.92, 287.1, 287.2; 436/43, 44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN, EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,260,392 A (LEE) 07 April 1981 (07/04/81), see entire document; especially figures 10-11, and column 8, lines 11-56.	1-12, 17-25
A	US 3,907,503 (BETTS ET AL.) 23 September 1975 (23/09/75), see entire document.	1-25
A	US 5,424,212 A (PINSL-OBER ET AL.) 13 June 1995 (13/06/95), see entire document.	1-25
A	US 5,338,688 A (DEEG ET AL.) 16 August 1994 (16/08/94), see entire document.	1-25
A	US 5,652,050 A (PALL ET AL.) 29 July 1997 (29/07/97), see entire document.	1-25
A	US 4,066,403 A (BRUSCHI) 03 January 1978 (03/01/78), see entire document.	1-25

 Further documents are listed in the continuation of Box C.  See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

31 AUGUST 2000

Date of mailing of the international search report

APR 05 2001

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

MINH-QUAN K. PHAM

Telephone No. (703) 308-0196

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/21064
---

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,281,540 A (MERKH ET AL.) 25 January 1994 (25/01/94), see entire document.	1-25
A	US 5,865,975 A (BISHOP) 02 February 1999 (02/02/99), see entire document.	1-25
Y	US 5,853,669 A (WOLFBEIS) 29 December 1998 (29/12/98), see entire document.	13-25
Y	US 5,217,444 A (SCHOENFELD) 08 June 1993 (08/06/93), see entire document.	13-25
Y	US 3,934,575 (BUCALO) 27 January 1976 (27/01/76), see entire document.	13-25
Y	US 5,769,813 A (PEILER ET AL.) 23 June 1998( 23/06/98), see entire document.	13-16
Y	US 5,425,918 A (HEALEY ET AL.) 20 June 1995 (20/06/95), see entire document, especially Figure 2.	1-25
Y	US 5,154,889 A (MURAISHI) 13 October 1992 (13/10/92), see entire document, especially Figure 2.	1-25

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/21064

A. CLASSIFICATION OF SUBJECT MATTER:  
IPC (7):

G01N 21/00, 31/00, 33/00, 33/48, 33/53, 33/537, 33/543, 35/00; C12Q 1/00; C12M 1/34, 3/00.